

2nd Quarterly Report

PUBLIC REPORT

Date of Report: February 6, 2019

Agreement Number: **693JK31810002**

Prepared for: US DOT/PHMSA

Project Title: **On-Board Power and Thrust Generation for the Explorer Family of Robots for the for the Inspection of Unpiggable Natural Gas Pipelines**

Prepared by: NYSEARCH/Northeast Gas Association

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For quarterly period ending: January 31, 2019

Results and Conclusions: Technical work continued on developing and analyzing concepts for the energy and thrust generating module to be integrated on the Explorer 20/26 in order to improve robot range. Work progressed in analyzing various options for submodule components. Work was also initiated on designing the turbine system.

Plans for Future Activity: In the next reporting period, we expect to finalize the concepts of the subcomponents of the system and for the power generation system.